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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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06/23/2006

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EXAMINER

PARK, ILWOO

ART UNIT

PAPER NUMBER

2182

DATE MAILED: 06/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/848,662

Applicant(s)

SINGHAL ET AL.

Examiner

Ilwoo Park

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 June 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page 7, filed 6/8/2006, with respect to claims 1-37 have been fully considered and are persuasive. The final rejection of claims 1-37 has been withdrawn.

2. Claims 1-37 are presented for examination.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-4, 7-13, 18-25, and 27-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Maffeis [US patent No. 6,721,779 B1].

As to claims 1, 27, and 34, Maffeis teaches a network adapter [message proxy 1 in fig. 1; col. 2, lines 65-67] for one or more access points in a local area network, comprising:

means for connecting said one or more access points to a wired network [col. 1, lines 55-58];

means for connecting said one or more access points to a wireless network [col. 1, lines 55-58];

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means for enforcing a managed network, including [col. 3, lines 18-22; col. 3, lines 53-66; col. 5, lines 13-20] at least one of filtering and rewriting data packets transmitted between wired and wireless networks; and

means for communicating with a network control server [col. 2, lines 65-67].

5. As to claim 2, Maffeis teaches said means for connecting to a wired network further comprising a wireline network interface [see JMS (Java Message Service) in fig. 1].

6. As to claim 3, Maffeis teaches said means for connecting to a wireless network further comprising a wireless network interface [col. 3, lines 5-10].

7. As to claim 4, Maffeis teaches said wireless network interface is couple to a wireless access point [fig. 1].

8. As to claim 7, Maffeis teaches said wireless network interface is couple to a Local Area Network (LAN) port [fig. 1].

9. As to claim 8, Maffeis teaches said means for enforcing a managed network comprising an augmented IP stack [e.g., inherent to TCP/IP in col. 1, lines 42-49].

10. As to claim 9, Maffeis teaches the augmented IP stack includes a Mobile IP Foreign Agent [inherent to mobile TCP/IP server in col. 2, lines 65-67 and col. 3, lines 12-15].

11. As to claim 10, Maffeis teaches said augmented IP stack detects and handles packets corresponding to a plurality of network services [col. 3, lines 1-15; col. 3, lines 26-36].

12. As to claim 11, Maffeis teaches said means for communicating comprising network coordination software [col. 1, lines 55-67].

13. As to claim 12, Maffeis teaches said network adapter including a plurality of wireline network interfaces [col. 1, lines 60-64].

14. As to claim 13, Maffeis teaches said network adapter including a plurality of wireless network interfaces [col. 3, lines 5-10].

15. As to claim 18, Maffeis teaches said network control server is co-located with said network adapter [col. 2, lines 60-67].

16. As to claim 19, Maffeis teaches said network control server is co-located with a core server that provides services as mobile devices wirelessly coupled to the local area network environment physically move through the environment [fig. 1; col. 3, lines 37-41].

17. As to claim 20, Maffeis teaches said network control server is co-located with a routing coordinator that enables client data connections to be preserved as mobile devices wirelessly coupled to the local area network environment physically move through the environment [fig. 1; col. 3, lines 1-4].

18. As to claim 21, Maffeis teaches said network adapter comprising at least one of a stand-alone personal computer (PC) and a special purpose computing machine [col. 2, lines 60-67].

19. As to claim 22, Maffeis teaches said network adapter comprising software stored within said one or more access points [col. 3, lines 10-22].

20. As to claim 23, Maffeis teaches said network control server is distributed over said wired network [fig. 1].

21. As to claim 24, Maffeis teaches said network adapter is connectable to one or more access points located on a plurality of LAN signets [fig. 1; col. 2, lines 60-67].

22. As to claim 25, Maffeis teaches said network adapter is connectable to different wireless LANs [col. 3, lines 5-12].

23. As to claim 28, Maffeis teaches receiving packets from a wireline network; processing said packets through an augmented IP stack; determining whether to rewrite said packets; and forwarding said packets to said wireless network [col. 5, lines 6-25].

24. As to claim 29, Maffeis teaches prior to the step of forwarding said packets to said wireless network, the step of determining whether to filter said packets [col. 5, lines 10-13].

25. As to claim 30, Maffeis teaches receiving packets from a wireless network; processing said packets through an augmented IP stack; and forwarding said packets to a wireline network [col. 5, lines 2-9].

26. As to claim 31, Maffeis teaches determining whether to filter said packets determining whether to rewrite said packets [col. 5, lines 6-25].

27. As to claim 32, Maffeis teaches detecting packets corresponding to a plurality of network services via said augmented IP stack; and handling said packets [col. 3, lines 1-15; col. 3, lines 26-36].

28. As to claim 33, Maffeis teaches determining an access point currently associated with a mobile client by inspecting a media access control (MAC) address associated with packets transmitted by the mobile client [col. 3, lines 5-15].

29. As to claim 35, Maffeis teaches packet filtering is carried out in accordance with at least one of security and quality-of-service policies of managed network environment [col. 4, lines 28-40].

30. As to claim 36, Maffeis teaches the packet rewriting is carried out in accordance with packet rewriting policies of managed network environment [col. 4, lines 28-40].

31. As to claim 37, Maffeis teaches the packet rewriting policies enable at least one of a roaming capability and network address translation (NAT) [col. 3, lines 1-4].

Claim Rejections - 35 USC § 103

32. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

33. Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maffeis [US patent No. 6,721,779 B1] in view of Oz et al. [US patent No. 6,434,141 B1].

As to claim 14, Maffeis does not expressly disclose said network adapter is coupled to a switch and said switch is coupled to a plurality of short-range wireless network interfaces. Oz et al teach a network adapter coupled to a switch [fig. 6, ref. Nos. 274, 276]. At the time of the invention, one of ordinary skill in the art would have been motivated to combine the cited disclosures in order to have an improved system for

directing data received from media sources to network transmitters for transmitting over a broadband network as taught by Oz et al [see abstract].

As for claim 15, Oz et al. teaches forwarding packets to a segment containing network adapter [col. 10, lines 43-49].

As for claim 16, Oz et al. teaches forwarding packets originating from adapter and destined to an access point segment network segment containing the network the segment containing the network adapter [col. 10, lines 61-62; col. 15, lines 46-61].

As for claim 17, Oz et al. teaches forwarding all packets the network adapter [fig. 6; col. 15, lines 55-61].

34. Claims 5, 6, and 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maffeis [US patent No. 6,721,779 B1] in view of well-known in the art.

As to claims 5 and 6, Maffeis does not expressly disclose the wireless access point comprising an 802.11 type access point or Bluetooth type access point; however, 802.11 type access point or Bluetooth type access point is well known in the art of wireless communication. At the time of the invention, one of ordinary skill in the art would have been motivated to include an 802.11 type access point or Bluetooth type access point in order to increase adaptability of Maffeis' network adapter.

As to claim 26, Maffeis does not disclose the network adapter is co-located with at least one of a Handoff Management Point, a Home Address Masquerader, and a Foreign Address Masquerader; however, a Handoff Management Point, a Home Address Masquerader, and a Foreign Address Masquerader are well known in the art of wireless communication. At the time of the invention, one of ordinary skill in the art

would have been motivated to include one of a Handoff Management Point, a Home Address Masquerader, and a Foreign Address Masquerader in order to increase adaptability of Maffeis' network adapter.

Conclusion

35. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

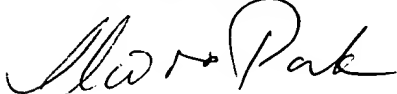
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ilwoo Park whose telephone number is (571) 272-4155. The examiner can normally be reached on Monday through Friday from 9:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Huynh can be reached on (571) 272-4147. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**ILWOO PARK
PRIMARY EXAMINER**

A handwritten signature in cursive script, appearing to read 'Ilwoo Park', written in black ink.

Ilwoo Park

June 13, 2006